

## EAST Search History

Ref #	Hits	Search Query	D8s	Default Operator	Plurals	Time Stamp
L3	66	((diffract\$ with (optic\$4 or element or lens\$2 or surfac\$2)) or doe) and ((teleconver\$ or tele?conver\$ or telephoto\$ or tele?photo\$ or (tele near3 (conver\$4 or photo\$5))) near5 (lens\$2 or element\$2)) and (conca\$ or biconca\$ or bi?conca\$) and (convex\$ or biconvex\$ or bi?convex\$) and ((angul\$ or angl\$) with (principle or principal or ray\$2 or light) with inciden\$) and (imag\$4 near5 height\$2)).clm.	US-P6PUB; USPAT; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2006/06/08 13:21
L4	193	((diffract\$ with (optic\$4 or element or lens\$2 or surfac\$2)) or doe) and ((teleconver\$ or tele?conver\$ or telephoto\$ or tele?photo\$ or (tele near3 (conver\$4 or photo\$5))) near5 (lens\$2 or element\$2)) and (conca\$ or biconca\$ or bi?conca\$) and (convex\$ or biconvex\$ or bi?convex\$) and (positiv\$ with power\$3) and (negativ\$ with power\$3) and (diameter\$2 or radi\$2)).clm.	US-P6PUB; USPAT; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2006/06/08 13:23
L5	192	4 and (foc\$2 near4 length\$2)).clm.	US-P6PUB; USPAT; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2006/06/08 12:13
L6	2	((diffract\$ with (optic\$4 or element or lens\$2)) or doe) and (teleconver\$ or tele?conver\$ or telephoto\$ or tele?photo\$ or (tele near3 (conver\$4 or photo\$5))) and conca\$ and convex\$ and ((angul\$ or angl\$) with (principle or principal or ray\$2))).clm.	US-P6PUB; USPAT; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2006/06/08 13:11
L7	7	((diffract\$ with (optic\$4 or element or lens\$2)) or doe) and (teleconver\$ or tele?conver\$ or telephoto\$ or tele?photo\$ or (tele near3 (conver\$4 or photo\$5))) and ((angul\$ or angl\$) with (principle or principal or ray\$2))).clm.	US-P6PUB; USPAT; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2006/06/08 13:12
L8	81	((diffract\$ with (optic\$4 or element or lens\$2)) or doe) and (conver\$3 or teleconver\$ or tele?conver\$ or telephoto\$ or tele?photo\$ or (tele near3 (conver\$4 or photo\$5))) and ((angul\$ or angl\$) with (principle or principal or ray\$2))).clm.	US-P6PUB; USPAT; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2006/06/08 13:12
L9	8	((diffract\$ with (optic\$4 or element or lens\$2)) or doe) and (conver\$3 or teleconver\$ or tele?conver\$ or telephoto\$ or tele?photo\$ or (tele near3 (conver\$4 or photo\$5))) and (positiv\$2 near4 power\$3) and (negativ\$2 near4 power\$3) and ((angul\$ or angl\$) with (principle or principal or ray\$2))).clm.	US-P6PUB; USPAT; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2006/06/08 13:13
L10	8	((diffract\$ with (optic\$4 or element or lens\$2 or surfac\$2)) or doe) and (conver\$3 or teleconver\$ or tele?conver\$ or telephoto\$ or tele?photo\$ or (tele near3 (conver\$4 or photo\$5))) and (positiv\$2 near4 power\$3) and (negativ\$2 near4 power\$3) and ((angul\$ or angl\$) with (principle or principal or ray\$2))).clm.	US-P6PUB; USPAT; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2006/06/08 13:14
L11	2	((diffract\$ with (optic\$4 or element or lens\$2 or surfac\$2)) or doe) and ((teleconver\$ or tele?conver\$ or telephoto\$ or tele?photo\$ or (tele near3 (conver\$4 or photo\$5))) near5 (lens\$2 or element\$2)) and ((angul\$ or angl\$) with (principle or principal or ray\$2 or light) with inciden\$) and (imag\$4 near5 height\$2)).clm.	US-P6PUB; USPAT; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2006/06/08 13:23
L12	2	((diffract\$ with (optic\$4 or element or lens\$2 or surfac\$2)) or doe) and ((conver\$3 or teleconver\$ or tele?conver\$ or telephoto\$ or tele?photo\$ or (tele near3 (conver\$4 or photo\$5))) near5 (lens\$2 or element\$2)) and ((angul\$ or angl\$) with (principle or principal or ray\$2 or light) with inciden\$) and (imag\$4 near5 height\$2)).clm.	US-P6PUB; USPAT; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2006/06/08 13:24

## EAST Search History

L13	2	((diffraction\$ with (optic\$4 or element or lens\$2 or surfac\$2)) or doe) and ((conver\$3 or teleconver\$ or tele?conver\$ or telephoto\$ or tele?photo\$ or (tele near3 (conver\$4 or photo\$5)))) and (concav\$ or biconcav\$ or bi?concav\$) and (convex\$ or biconvex\$ or bi?convex\$) and (positiv\$ with power\$3) and (negativ\$ with power\$3) and (diameter\$2 or radi\$2)).clm.	US-P6PUB; USPAT; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2006/06/08 13:41
L14	3	((diffraction\$ with (optic\$4 or element or lens\$2 or surfac\$2)) or doe) and ((conver\$3 or teleconver\$ or tele?conver\$ or telephoto\$ or tele?photo\$ or (tele near3 (conver\$4 or photo\$5)))) and (concav\$ or biconcav\$ or bi?concav\$) and (convex\$ or biconvex\$ or bi?convex\$) and positiv\$ and power\$3 and negativ\$ and (diameter\$2 or radi\$2)).clm.	US-P6PUB; USPAT; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2006/06/08 13:42
S1	4	((("6424465") or ("6563644")).PN.	US-P6PUB; USPAT; EPO; JPO; DERWENT ; IBM_TDB	OR	OFF	2005/06/21 15:53
S2	5394	((359/569) or (359/558) or (359/565) or (359/566) or (359/676) or (359/677) or (359/680) or (359/681) or (359/682) or (359/691) or (359/692) or (359/745) or (359/748) or (359/749) or (359/753) or (359/754) or (359/793) or (359/795)).CLS.	US-P6PUB; USPAT; EPO; JPO; DERWENT ; IBM_TDB	OR	OFF	2005/06/21 18:51
S3	153	S2 and (teleconver\$ or tele?conver\$ or telephoto\$ or tele?photo\$) and diffraction\$	US-P6PUB; USPAT; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2005/06/22 17:15
S4	2	jp-2002182110-\$ did.	US-P6PUB; USPAT; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2005/06/21 20:02
S5	2	("6,507,437").PN.	US-P6PUB; USPAT; EPO; JPO; DERWENT ; IBM_TDB	OR	OFF	2005/06/21 20:05
S6	6	("6301062").PN.	US-P6PUB; USPAT; EPO; JPO; DERWENT ; IBM_TDB	OR	OFF	2005/06/22 10:06
S7	2	("6424465").PN.	US-P6PUB; USPAT; EPO; JPO; DERWENT ; IBM_TDB	OR	OFF	2005/06/22 10:06
S8	4	("4496223"   "5786944"   "6097547"   "6147813").PN.	US-P6PUB; USPAT; USOCR	OR	ON	2005/06/22 11:31
S9	4	("4496223"   "5786944"   "6097547"   "6147813").PN.	US-P6PUB; USPAT; USOCR	OR	ON	2005/06/22 11:46

## EAST Search History

S10	2	jp-11052238-\$.did.	US-P6PUB; USPAT; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2005/06/22 16:29
S11	2	jp-11052244-\$.did.	US-P6PUB; USPAT; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2005/06/22 16:31
S12	2	jp-11305126-\$.did.	US-P6PUB; USPAT; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2005/06/22 16:31
S13	1	jp-06289289-\$.did.	US-P6PUB; USPAT; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2005/06/22 16:32
S14	5394	((359/569) or (359/558) or (359/565) or (359/566) or (359/676) or (359/677) or (359/680) or (359/681) or (359/682) or (359/691) or (359/692) or (359/745) or (359/748) or (359/749) or (359/753) or (359/754) or (359/793) or (359/795)),CCL.S.	US-P6PUB; USPAT; EPO; JPO; DERWENT ; IBM_TDB	OR	OFF	2005/06/22 16:34
S15	5	S14 and (teleconver\$ or tele?conver\$) and diffract\$	US-P6PUB; USPAT; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2005/06/22 17:14
S16	5	S14 and (teleconver\$ or tele?conver\$ or (front near4 conver\$)) and (diffract\$ or doe) and afoc\$4	US-P6PUB; USPAT; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2005/06/22 16:38
S17	17	S14 and (diffract\$ or doe) and (afoc\$4 same magnif\$) and ((diameter or aperture);with effect\$)	US-P6PUB; USPAT; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2005/06/22 17:10
S18	6	S14 and (teleconver\$ or tele?conver\$) and galile\$	US-P6PUB; USPAT; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2005/06/22 17:14
S19	19	S14 and (teleconver\$ or tele?conver\$ or telephoto\$ or tele?photo\$) and galile\$	US-P6PUB; USPAT; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2005/06/22 17:31

## EAST Search History

S20	23	(teleconver\$ or tele?conver\$ or telephoto\$ or tele?photo\$) and diffract\$ and (afoc\$4 same magnif\$)	US-P6PUB; USPAT; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2005/06/22 17:51
S21	79	(teleconver\$ or tele?conver\$ or telephoto\$ or tele?photo\$ or (front near4 conver\$) or (afoc\$4 near4 conver\$)) and diffract\$ and afoc\$ and magnif\$	US-P6PUB; USPAT; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2005/06/22 17:53
S22	79	(teleconver\$ or tele?conver\$ or telephoto\$ or tele?photo\$ or (front near4 conver\$) or (afoc\$4 near4 conver\$)) and (diffract\$ or doe) and afoc\$ and magnif\$	US-P6PUB; USPAT; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2005/06/22 18:30
S23	2	("5,044,706").PN.	US-P6PUB; USPAT; EPO; JPO; DERWENT ; IBM_TDB	OR	OFF	2005/06/22 18:19
S24	202	(teleconver\$ or tele?conver\$ or telephoto\$ or tele?photo\$ or (front near4 conver\$) or (afoc\$4 near4 conver\$)) and afoc\$ and (effect\$ with (diameter or aperture))	US-P6PUB; USPAT; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2005/06/22 18:31
S25	158	(teleconver\$ or tele?conver\$ or telephoto\$ or tele?photo\$ or (front near4 conver\$) or (afoc\$4 near4 conver\$)) and afoc\$ and (effect\$ near4 (diameter or aperture))	US-P6PUB; USPAT; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2005/06/23 10:19
S26	110	S25 and (refract\$ near4 power\$3)	US-P6PUB; USPAT; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2005/06/22 18:32
S27	4	("3029700"   "3517984").PN.	US-P6PUB; USPAT; USOCR	OR	ON	2005/06/23 10:03
S28	4	("4171872").URPN.	USPAT	OR	ON	2005/06/23 10:09
S29	918	(teleconver\$ or tele?conver\$ or (front near4 conver\$) or (afoc\$4 near4 conver\$)) and diffract\$	US-P6PUB; USPAT; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2005/06/23 10:25
S30	38	((teleconver\$ or tele?conver\$ or (front near4 conver\$) or (afoc\$4 near4 conver\$)) with lens\$2) and (diffract\$ or doe) and afoc\$4 and magnif\$	US-P6PUB; USPAT; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2005/06/23 10:48

# EAST Search History

S31	2	("5044706").PN.	US-P6PUB; USPAT; EPO; JPO; DERWENT ; IBM_TDB	OR	OFF	2005/06/23 10:35
S32	1639	((teleconver\$ or tele7conver\$ or (front near4 conver\$) or (afoc\$4 near4 conver\$)) near4 lens\$2)	US-P6PUB; USPAT; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2005/06/23 10:49
S33	45	S32 and (diffract\$ or doe) and (power\$4 with refract\$)	US-P6PUB; USPAT; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2005/06/23 10:58
S34	104	S32 and (diffract\$ or doe) and (angl\$4 with inciden\$)	US-P6PUB; USPAT; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2005/06/23 10:59
S35	1	S32 and (diffract\$ or doe) and ((angl\$4 with inciden\$) same (princip\$ with ray))	US-P6PUB; USPAT; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2005/06/23 10:59
S36	85	(US-20050018293-\$ or US-20040218274-\$ or US-20040190154-\$ or US-20040105020-\$ or US-20040021953-\$ or US-20030103268-\$ or US-20030076591-\$ or US-20030021031-\$ or US-20020196560-\$ or US-20020167728-\$ or US-20020131184-\$ or US-20020122264-\$ or US-20020041451-\$ or US-20020024746-\$ or US-20010055157-\$ or US-20010004297-\$ or US-20020063847-\$ or US-20040070844-\$ or US-20030189763-\$ or US-20040136705-\$).did. or (US-6424465-\$ or US-6563644-\$ or US-6507437-\$ or US-6301062-\$ or US-6763186-\$ or US-6757103-\$ or US-6741398-\$ or US-6704149-\$ or US-6671104-\$ or US-6671096-\$ or US-6639737-\$ or US-6639721-\$ or US-6621642-\$ or US-6097547-\$ or US-4496223-\$ or US-6556357-\$ or US-6542301-\$ or US-6496310-\$ or US-6473232-\$ or US-6317268-\$ or US-6236515-\$ or US-6219190-\$ or US-6215600-\$ or US-6157494-\$ or US-6154323-\$ or US-6101044-\$).did. or (US-6094314-\$ or US-6078434-\$ or US-6069743-\$ or US-6067196-\$ or US-6025961-\$ or US-5999331-\$ or US-5982544-\$ or US-5978158-\$ or US-5949577-\$ or US-5930043-\$ or US-5923479-\$ or US-5875059-\$ or US-5268790-\$ or US-4834472-\$ or US-4171872-\$ or US-5877850-\$ or US-6612693-\$ or US-5044706-\$ or US-6246516-\$ or US-6057960-\$ or US-5528416-\$ or US-6891680-\$ or US-6751029-\$ or US-6693750-\$ or US-4848883-\$ or US-4789227-\$ or US-3029700-\$).did. or (EP-544174-\$).did. or (JP-2002182110-\$ or JP-11052238-\$ or JP-11052244-\$ or JP-11305126-\$ or JP-06289289-\$ or JP-2004220003-\$ or JP-2001174702-\$ or JP-2000275517-\$ or JP-07209580-\$ or JP-2004126059-\$ or JP-2004126060-\$).did.	US-P6PUB; USPAT; EPO; JPO	OR	ON	2005/06/23 11:27
S37	51	S36 and (air or cement)	US-P6PUB; USPAT; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2005/06/23 11:27



## EAST Search History

S38	5572	((359/569) or (359/558) or (359/565) or (359/566) or (359/676) or (359/677) or (359/680) or (359/681) or (359/682) or (359/691) or (359/692) or (359/745) or (359/748) or (359/749) or (359/753) or (359/754) or (359/793) or (359/795)),CCL.S.	US-P6PUB; USPAT; EPO; JPO; DERWENT ; IBM_TDB	OR	OFF	2005/12/04 20:14
S39	174	S38 and (teleconver\$ or tele?conver\$ or telephoto\$ or tele?photo\$) and diffract\$	US-P6PUB; USPAT; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2005/12/04 20:14
S40	5572	((359/569) or (359/558) or (359/565) or (359/566) or (359/676) or (359/677) or (359/680) or (359/681) or (359/682) or (359/691) or (359/692) or (359/745) or (359/748) or (359/749) or (359/753) or (359/754) or (359/793) or (359/795)),CCL.S.	US-P6PUB; USPAT; EPO; JPO; DERWENT ; IBM_TDB	OR	OFF	2005/12/04 20:14
S41	6	S40 and (teleconver\$ or tele?conver\$) and diffract\$	US-P6PUB; USPAT; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2005/12/04 20:14
S42	5	S40 and (teleconver\$ or tele?conver\$ or (front near4 conver\$)) and (diffract\$ or doe) and afoc\$4	US-P6PUB; USPAT; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2005/12/04 20:14
S43	17	S40 and (diffract\$ or doe) and (afoc\$4 same magnif\$) and ((diameter or aperture) with effect\$)	US-P6PUB; USPAT; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2005/12/04 21:13
S44	6	S40 and (teleconver\$ or tele?conver\$) and galile\$	US-P6PUB; USPAT; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2005/12/04 20:14
S45	20	S40 and (teleconver\$ or tele?conver\$ or telephoto\$ or tele?photo\$) and galile\$	US-P6PUB; USPAT; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2005/12/04 20:14
S46	2	S40 and ((diffract\$ with optic\$4 or element or lens\$2) or doe) and (afoc\$4 same magnif\$) and (teleconver\$ or tele?conver\$ or telephoto\$ or tele?photo\$) and (power with diffract\$)	US-P6PUB; USPAT; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2005/12/04 21:16
S47	278	S40 and ((diffract\$ with optic\$4 or element or lens\$2) or doe) and (teleconver\$ or tele?conver\$ or telephoto\$ or tele?photo\$) and concav\$ and convex\$ and ((angul\$ or angl\$) with (principle or ray))	US-P6PUB; USPAT; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2005/12/04 21:21

## EAST Search History

S48	14	S47 and (refract\$ with power) and (afoc\$4 same (zoom\$4 or magnif\$))	US-P6PUB; USPAT; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2005/12/04 21:23
S50	72	S40 and ((diffract\$ with (optic\$4 or element or lens\$2)) or doe) and (teleconver\$ or tele?conver\$ or telephoto\$ or tele?photo\$) and concav\$ and convex\$ and ((angul\$ or angl\$) with (principle or ray))	US-P6PUB; USPAT; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2005/12/04 21:24
S51	5	S50 and (refract\$ with power) and (afoc\$4 same (zoom\$4 or magnif\$))	US-P6PUB; USPAT; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2005/12/04 21:25
S52	73	S40 and ((diffract\$ with (optic\$4 or element or lens\$2)) or doe) and (teleconver\$ or tele?conver\$ or telephoto\$ or tele?photo\$) and (concav\$ or biconvac\$ or bi?concav\$) and (convex\$ or biconvex\$ or bi?convex\$) and ((angul\$ or angl\$) with (principle or ray))	US-P6PUB; USPAT; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2005/12/04 21:26
S53	5	S52 and (refract\$ with power) and (afoc\$4 same (zoom\$4 or magnif\$))	US-P6PUB; USPAT; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2005/12/04 21:26
S54	9	((diffract\$ with (optic\$4 or element or lens\$2)) or doe) and (teleconver\$ or tele?conver\$ or telephoto\$ or tele?photo\$) and (concav\$ or biconvac\$ or bi?concav\$) and (convex\$ or biconvex\$ or bi?convex\$) and ((angul\$ or angl\$) with (principle or ray)) and (refract\$ with power) and (afoc\$4 same (zoom\$4 or magnif\$))	US-P6PUB; USPAT; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2005/12/04 21:29
S55	12	((diffract\$ with (optic\$4 or element or lens\$2 or surfac\$3)) or doe) and (teleconver\$ or tele?conver\$ or telephoto\$ or tele?photo\$) and (concav\$ or biconvac\$ or bi?concav\$) and (convex\$ or biconvex\$ or bi?convex\$) and (refract\$ with power) and (afoc\$4 same (zoom\$4 or magnif\$))	US-P6PUB; USPAT; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2005/12/04 21:32
S56	11	((diffract\$ with (optic\$4 or element or lens\$2 or surfac\$3)) or doe) and (teleconver\$ or tele?conver\$ or telephoto\$ or tele?photo\$) and ((positiv\$ or negativ\$) with (refract\$ with power)) and (afoc\$4 same (zoom\$4 or magnif\$))	US-P6PUB; USPAT; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2005/12/04 21:53
S57	31	((diffract\$ with (optic\$4 or element or lens\$2 or surfac\$3)) or doe) and ((positiv\$ or negativ\$) with (refract\$ with power)) and (afoc\$4 same (zoom\$4 or magnif\$)) and (concav\$ or biconvac\$ or bi?concav\$) and (convex\$ or biconvex\$ or bi?convex\$)	US-P6PUB; USPAT; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2005/12/04 22:33
S58	22	((diffract\$ with (optic\$4 or element or lens\$2 or surfac\$3)) or doe) and ((positiv\$ or negativ\$) with (refract\$ with power)) and (afoc\$4 same (zoom\$4 or magnif\$)) and (imag\$4 with height)	US-P6PUB; USPAT; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2005/12/04 22:14

## EAST Search History

S59	6	((diffract\$ with (optic\$4 or element or lens\$2 or surfac\$3)) or doe) and ((refract\$ with power)) and (afoc\$4 same (zoom\$4 or magnif\$)) and ((imag\$4 with height) same ((angl\$ or anglu\$) with inciden\$))	US-P6PUB; USPAT; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2005/12/04 22:32
S60	1	((diffract\$ with (optic\$4 or element or lens\$2 or surfac\$3)) or doe) and ((refract\$ with power)) and (afoc\$4 same (zoom\$4 or magnif\$)) and ((imag\$4 with height) same ((angl\$ or anglu\$) with inciden\$))).clm.	US-P6PUB; USPAT; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2005/12/04 22:32
S61	1	((diffract\$ with (optic\$4 or element or lens\$2 or surfac\$3)) or doe) and ((positiv\$ or negativ\$) with (refract\$ with power)) and (afoc\$4 same (zoom\$4 or magnif\$)) and (concav\$ or biconvac\$ or bi?concav\$) and (convex\$ or biconvex\$ or bi?convex\$)).clm.	US-P6PUB; USPAT; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2005/12/04 22:33
S62	26	(diffract\$ or doe) and (refract\$ with power) and (afoc\$4 same (zoom\$4 or magnif\$)).clm.	US-P6PUB; USPAT; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2005/12/04 22:36
S63	1	(diffract\$ or doe) and (afoc\$4 same (zoom\$4 or magnif\$) and ((imag\$4 with height) same ((angl\$ or anglu\$) with inciden\$))).clm.	US-P6PUB; USPAT; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2005/12/04 22:38
S64	5798	((359/569) or (359/558) or (359/565) or (359/566) or (359/676) or (359/677) or (359/680) or (359/681) or (359/682) or (359/691) or (359/692) or (359/745) or (359/748) or (359/749) or (359/753) or (359/754) or (359/793) or (359/795)).CCL.S.	US-P6PUB; USPAT; EPO; JPO; DERWENT ; IBM_TDB	OR	OFF	2006/06/07 15:14
S65	201	S64 and (teleconver\$ or tele?conver\$ or telephoto\$ or tele?photo\$) and diffract\$	US-P6PUB; USPAT; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2006/06/07 15:14
S66	5798	((359/569) or (359/558) or (359/565) or (359/566) or (359/676) or (359/677) or (359/680) or (359/681) or (359/682) or (359/691) or (359/692) or (359/745) or (359/748) or (359/749) or (359/753) or (359/754) or (359/793) or (359/795)).CCL.S.	US-P6PUB; USPAT; EPO; JPO; DERWENT ; IBM_TDB	OR	OFF	2006/06/07 15:14
S67	6	S66 and (teleconver\$ or tele?conver\$) and diffract\$	US-P6PUB; USPAT; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2006/06/07 15:14
S68	5	S66 and (teleconver\$ or tele?conver\$ or (front near4 conver\$)) and (diffract\$ or doe) and afoc\$4	US-P6PUB; USPAT; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2006/06/07 15:14



## EAST Search History

S69	17	S66 and (diffract\$ or doe) and (afoc\$4 same magnif\$) and ((diameter or aperture) with effect\$)	US-P6PUB; USPAT; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2006/06/07 15:15
S70	6	S66 and (teleconver\$ or tele?conver\$) and galile\$	US-P6PUB; USPAT; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2006/06/07 15:15
S71	20	S66 and (teleconver\$ or tele?conver\$ or telephoto\$ or tele?photo\$) and galile\$	US-P6PUB; USPAT; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2006/06/07 15:15
S72	2	S66 and ((diffract\$ with optic\$4 or element or lens\$2) or doe) and (afoc\$4 same magnif\$) and (teleconver\$ or tele?conver\$ or telephoto\$ or tele?photo\$) and (power with diffract\$)	US-P6PUB; USPAT; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2006/06/07 15:15
S73	300	S66 and ((diffract\$ with optic\$4 or element or lens\$2) or doe) and (teleconver\$ or tele?conver\$ or telephoto\$ or tele?photo\$) and concav\$ and convex\$ and ((angul\$ or angl\$) with (principle or ray))	US-P6PUB; USPAT; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2006/06/07 16:29
S74	14	S73 and (refract\$ with power) and (afoc\$4 same (zoom\$4 or magnif\$))	US-P6PUB; USPAT; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2006/06/07 15:15
S75	83	S66 and ((diffract\$ with (optic\$4 or element or lens\$2)) or doe) and (teleconver\$ or tele?conver\$ or telephoto\$ or tele?photo\$) and concav\$ and convex\$ and ((angul\$ or angl\$) with (principle or ray))	US-P6PUB; USPAT; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2006/06/07 16:38
S76	5	S75 and (refract\$ with power) and (afoc\$4 same (zoom\$4 or magnif\$))	US-P6PUB; USPAT; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2006/06/07 15:16
S77	84	S66 and ((diffract\$ with (optic\$4 or element or lens\$2)) or doe) and (teleconver\$ or tele?conver\$ or telephoto\$ or tele?photo\$) and (concav\$ or biconvac\$ or bi?concav\$) and (convex\$ or biconvex\$ or bi?convex\$) and ((angul\$ or angl\$) with (principle or ray))	US-P6PUB; USPAT; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2006/06/07 16:35
S78	5	S77 and (refract\$ with power) and (afoc\$4 same (zoom\$4 or magnif\$))	US-P6PUB; USPAT; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2006/06/07 15:16

## EAST Search History

S79	84	S66 and ((diffract\$ with (optic\$4 or element or lens\$2)) or doe) and (teleconver\$ or tele?conver\$ or telephoto\$ or tele?photo\$ or (tele near3 (conver\$4 or photo\$5))) and concav\$ and convex\$ and ((angul\$ or angl\$) with (principle or principal or ray\$2))	US-P6PUB; USPAT; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2006/06/07 16:40
S80	89	S66 and diffract\$ and (teleconver\$ or tele?conver\$ or telephoto\$ or tele?photo\$ or (tele near3 (conver\$4 or photo\$5))) and (concav\$ or biconcav\$ or bi?concav\$) and (convex\$ or biconvex\$ or bi?convex\$) and ((angul\$ or angl\$) with (principle or principal or ray\$2))	US-P6PUB; USPAT; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2006/06/07 19:26
S81	12	("5044706"   "5268790"   "5790321"   "5847882"   "5978153"   "6016228"   "6081389"   "6094312"   "6157488"   "6542357"   "6556357"   "6577450").PN.	US-P6PUB; USPAT; USOCR	OR	ON	2006/06/07 18:28
S82	74	S66 and ((diffract\$ with (optic\$4 or element or lens\$2)) or doe) and (teleconver\$ or tele?conver\$ or telephoto\$ or tele?photo\$ or (tele near3 (conver\$4 or photo\$5))) and (concav\$ or biconcav\$ or bi?concav\$) and (convex\$ or biconvex\$ or bi?convex\$) and ((angul\$ or angl\$) with (principle or principal or ray\$2 or light) with inciden\$)	US-P6PUB; USPAT; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2006/06/07 19:27
S83	74	S66 and ((diffract\$ with (optic\$4 or element or lens\$2 or surfac\$2)) or doe) and (teleconver\$ or tele?conver\$ or telephoto\$ or tele?photo\$ or (tele near3 (conver\$4 or photo\$5))) and (concav\$ or biconcav\$ or bi?concav\$) and (convex\$ or biconvex\$ or bi?convex\$) and ((angul\$ or angl\$) with (principle or principal or ray\$2 or light) with inciden\$)	US-P6PUB; USPAT; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2006/06/08 10:16